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SERIAL NO.: 10/565,933
FILED: January 20, 2006
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AMENDMENTS TO THE SPECIFICATION

In the Abstract:

Please replace the Abstract with the following Abstract:

A device for measuring flow in a fluid is described. The device includes a cavitation unit that includes a cavitation light laser source for generating cavitation bubbles in the fluid. The device further includes a particle-measuring unit for detecting the movement of cavitation bubbles generated by the cavitation unit. The device may include a facility that can be used, in particular, to measure the flow conditions in a blood vessel. The facility may include a catheter having an optical unit at the catheter tip. The light generated by the cavitation light laser source is beamed via the catheter and the optical unit into a focus region in the vessel lumen, where it generates cavitation bubbles.